3/9/2000 STN/APS Search

08989261

\$%^STN;HighlightOn= ***;HighlightOff=***
=> d hist

(FILE 'HOME' ENTERED AT 14:21:34 ON 29 FEB 2000)

	FILE	'USPA'	rfi	ULL' ENTERED AT 14:21:40 ON 29 FEB 2000
L1		0	S	DIFFERENT (2A) ALGORITHM# (2A) ENCRYPTION (3A) BLOCK
#				
L2		0	S	DIFFERENT (2A) ALGORITHM# (2A) ENCRYPTION (3A) SEGME
NT#				
L3		79	S	DIFFERENT (2A) ALGORITHM# (2A) ENCRYPTION
L4		12	S	L3 (P) (SEGMENT# OR BLOCK#)
L5		2	S	ENCRYPTION OBJECT
L6		. 0	S	5577125.PN.
L7		0	S	5577125/PN
L8		0	S	5577125
L9		1	S	L5 AND (DOUBLE CLICKING)
L10		0	S	L9 AND OOP
L11		0	S	L9 AND (OBJECT ORIENTED)
L12		3681	S	OBJECT ORIENTED
L13		15	S	L12 AND ENCRYPTION (2A) OBJECT
_				

L19 ANSWER 1 OF 1 USPATFULL

: 1

AB An access control processor for a conditional access system in which

encrypted information ***segments*** provided by a plurality

of information service providers are encrypted for transmission in

accordance with different conditional access processes respectively

utilizing ***different*** ***algorithms*** for encrypting the

information segments. The processor includes a decryptor in an information receiver by decrypting encrypted information segmets

received by the information receiver by processing the received ***encrypted*** information ***segments*** with a session key used

for encrypting the information segments in accordance with an a lgorithm

utilized in one of said. . . access processes; and a conditional

access controller in the information receiver for selectively e

nabling

the decryptor to decrypt received information ***segments***

encrypted in accordance with any of said different cond itional

access processes by providing to the decryptor cryptographic in formation

for defining the. . . utilized in said one of said different conditional access processes for use by the decryptor to decryp t the

received information ***segment*** ***encrypted*** in a ccordance

with said algorithm. Algorithm-defining cryptographic informati on is

downloaded from an information stream received by the information $\ensuremath{\mathsf{on}}$

receiver. Transmission.

SUMM In the prior art, ***encrypted*** information ***segments

respectively provided by a plurality of different conditional a ccess

information service providers are respectively encrypted for transmission in accordance with different conditional access processes,

which may respectively utilize ***different*** ***algorit hms***

for encrypting the information segments; and the differently ***encrypted*** information ***segments*** are respective ly

decrypted by differently configured information receivers respectively

containing access control processors adapted for enabling decry ption of

only ***encrypted*** information ***segments***

encrypted in accordance with one of the different conditional

access processes. An encryption algorithm is a process by which a given.

SUMM . . . Klein S. Gilhousen, Jerrold A. Heller, Michael V. Harding and

Robert D. Blakeney. In such conditional access system, an information

segment is ***encrypted*** for transmission by scrambling

the information segment with a keystream that is produced by processing

a secure session key in. . . algorithm. In an information re

ceiver of such a conditional access system, the encrypted information sig nal is ***encrypted*** decrypted by descrambling the ***segment*** with a keystream that is produced by processing the secure session key in accordance with the predetermined encrypt ion algorithm. The. . . is processed to produce the keystream th at is used to scramble an information segment for a given transmissio n of the ***encrypted*** information ***segment*** . Typically the session key is processed with another key and/or a data signal to produ ce the keystream. In the two. SUMM The prior art has suggested a conditional access system that wo uld ***encrypted*** information ***seaments*** enable ctively ***encrypted*** for transmission in accordance with different conditional access processes to be descrambled through use of a standard information receiver having. . . the different conditional a ccess information service providers for enabling a common descrambler in the information receiver to descramble received information qments*** ***encrypted*** in accordance with any of the different condi tional access processes. In such a system the use of a common descramb ler to decrypt ***encrypted*** information ***segments*** ided by any of a plurality of different information service providers t hat respectively ***encrypt*** information ***seaments*** or transmission in accordance with any of a plurality of different conditional access processes respectively utilizing ent*** ***algorithms*** for encrypting the information segments woul d make it necessary that each of the detachable conditional access module S

Page 3

respectively provided by.

A

The present invention provides an access control processor for SUMM а conditional access system in which ***encrypted*** informat ion provided by a plurality of information service providers are encrypted for transmission in accordance with dif ferent conditional access processes respectively utilizing ***differ ent*** ***algorithms*** for encrypting the information segments, the processor comprising a decryptor in an information receiver for ***encrypted*** decrypting information ***seaments*** eceived by the information receiver by processing the received rypted*** ***segments*** information with a session key used for encr ypting the information segments in accordance with an algorithm utiliz ed in one of said. access processes; and a conditional access cont roller in the information receiver for selectively enabling the decryptor to decrypt received information ***segments*** ***encrypted* * * in accordance with any of said different conditional access proces ses by providing to the decryptor cryptographic information for defini ng the. utilized in said one of said different conditional access processes for use by the decryptor to decrypt the received info rmation ***segment*** ***encrypted*** in accordance with said alg orithm. The cryptographic information for defining the encryption algor ithm may define various bit selection and/or processing. . be contained in a detachable conditional access module SUMM that would be interfaced with the information receiver for enabling decryption of ***encrypted*** information ***segments*** provided by such service provider, thereby reducing the cost of the detachable conditional access modules, which are replaced from time. SUMM present invention also provides a conditional access s

Page 4

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08989261 ystem including the above-described access control processor in combi nation with encryption means for ***encrypting*** information ***segments*** for transmission in accordance with different conditional access processes respectively utilizing ent*** ***algorithms*** for encrypting the information segments. In another aspect, the present invention provides an access con SUMM trol processor for a conditional access system in which an ypted*** information ***segment*** provided by an information servic е provider is encrypted for transmission in accordance with a con ditional access process utilizing an algorithm for encrypting the inform ation segment, the processor comprising a decryptor in an information receiver ***encrypted*** information ***segments*** for decrypting received by the information receiver by processing the received with a session ***encrypted*** information ***seaments*** key used for encrypting the information segments in accordance with an a lgorithm utilized in said conditional access process; and a conditional access controller in the information receiver for enabling the decrypt or to ***segments*** decrypt received information ***encrypted* in accordance with said conditional access process by providing to the decryptor cryptographic information for defining the algorithm utilized in said conditional access process for use by the decryptor to decrypt the received information ***segments*** ***encrvpted*** in accordance with said algorithm, wherein the conditional access controller includes means for detecting within an information s tream

received by the information receiver cryptographic information for

n

defining the algorithm used for ***encrypting*** informatio

segments in accordance with said conditional access pro cess; and means for downloading the detected cryptographic information fr om said information stream. SUMM In a further aspect, the present invention provides an access c ontrol processor for a conditional access system in which an ypted*** information ***segment*** provided by an information servic е provider is encrypted for transmission in accordance with a giv en conditional access process, the processor comprising a decrypto r in an information receiver for decrypting ***encrypted*** informa tion ***seaments*** received by the information receiver; and a co nditional access controller in the information receiver for enabling the decryptor

to decrypt received information ***segments*** ***encrypt ed***

in accordance with the given conditional access process; wherein the

conditional access controller includes means for requesting transmission

to the.

DETD . . . information service provider A for transmission in acc ordance

with a first conditional access processes utilizing a first algorithm ${\tt A}$

for ***encrypting*** information ***segments*** 14a; an d a

second information server 10b encrypts clear information segmen ts 14b

provided by a second information service provider B.

DETD . . . a session key K in accordance with the first algorithm A

is included in cryptographic information 24 that is processed by the

entitlement message generator 20 with entitlement information 2 5 to

provide entitlement messages 26. The encoder 22 combines the ***encrypted*** information ***segments*** 23 and entitle

ment messages 26 to provide a combined signal 27 for transmission. E xamples of entitlement information are described in. DETD The demultiplexer 33 demultiplexes a received combined signal 3 8 ***encrypted*** ***segments*** containing information nd entitlement messages and provides the received ***encrypted** ***segments*** 23 to the decryptor 31 and the r information eceived entitlement messages 26 to the conditional access controller 32 DETD processes the entitlement messages 26 to determine whe ther the decryptor 31 in the information receiver 12 is authorized to de crypt ***segments*** ***encrypted*** information 23 identified by the service request signal 40. Upon determining that the decryptor 31 and thereby the information receiver 12. . . 32 provides appropr iate cryptographic information 42 to the decryptor 31 to thereby ena ble the ***encrypted*** decryptor 31 to decrypt the received ation ***segments*** 23. The cryptographic information 42 includes the session key K and cryptographic data for defining the algorithm A or B utilized in the conditional access process used to produce the ***encrypted*** ***segments*** information 23 identified by the service request signal 40. The decryptor 31 then decrypts the received ***encrypted*** DETD information ***segments*** 23 by processing the received ***encrypted*** information ***segments*** 23 with the se ssion key K used for encrypting the information segments in accordance wi th the algorithm A or B utilized in the conditional access process use d to produce the ***encrypted*** ***segments*** information 23, to

provided

thereby reproduce the clear information segments 14, which are

to the information processor 35.

DETD The decryptor 51 receives a combined signal 58 containing ***encrypted*** information ***segments*** and entitlemen t

messages.

DETD . . . decryptor 51 is enabled for decryption, the combined s ignal 59

provided from the decryptor 51 to the demultiplexer 53 includes ***encrypted*** information ***segments*** .

DETD . . . processes the entitlement messages 60 to determine whe ther the

decryptor 51 in the information receiver 49 is authorized to decrypt

encrypted information ***segments*** identified by

service request signal 62. Upon determining that the decryptor 51 and

thereby the information receiver 49 is. . . 52 provides appropriate

cryptographic information 64 to the decryptor 51 to thereby enable the

decryptor 51 to decrypt the received ***encrypted*** information

segments included in the received combined signal 58. The

cryptographic information 64 includes the session key K and cryptographic data for defining the algorithm A or B utilized in the

conditional access process used to produce the ***encrypted**

information ***segments*** identified by the service reques t signal

62. Since the combined signals 27a provided by the information server

10a of information service provider A may incorporate the
encrypted information ***segments*** into the combined

signal 27a in a different format than the format used for such purpose

by the information server. . . 51 by the conditional access controller 52 further includes format data that enables the decryptor 51

to decrypt only the ***encrypted*** information ***segmen ts***

included in the combined signal 58.

DETD . . . decryption, the combined signal 59 provided from the decryptor

51 to the demultiplexer 53 includes clear information segments

Page 8

rather ***encrypted*** information ***segments*** The decryptor 51 decrypts the received ***encrypted*** info DETD rmation ***seaments*** in the combined signal 58 by processing the re ceived ***encrypted*** information ***segments*** with the sessi on key K used for encrypting the information segments in accordance with the algorithm A or B utilized in the conditional access process use d to produce the ***encrypted*** information ***segments*** , to thereby reproduce the clear information segments 14, which are provided by the multiplexer 53 to the information processor 55. . . 82 stored in the memory 74 to determine whether the de DETD cryptor 31 in the information receiver is authorized to decrypt identified by ***encrypted*** information ***segments*** the service request signal 40. Upon determining that the decryptor 31 and thereby the information receiver is so. DETD . . to thereby provide to the decryptor 31 the cryptograph ic information 42 that enables the decryptor 31 to decrypt the rec eived ***encrypted*** information ***segments*** 23 identified by the service request signal 40. As indicated above, the cryptographi С information 42 includes the session key K. . . and cryptogra phic information for defining the algorithm A or B utilized in the conditional access process used to produce the ***encrypted** information ***segments*** identified by the service reques t signal 40. . . identified in the service request signal 40. In one em DETD bodiment, the memory 74 stores the cryptographic information for defining the ***algorithms*** A and B respectively use ***different*** d in the different conditional access processes. In another embodiment t

he cryptographic information for defining each. . . 75 respecti vely provided by the different conditional access information servic е providers and respectively storing the cryptographic informatio n for ***different*** ***algorithms*** defining the A, B util ized for decrypting the received ***encrypted*** information ***se 23 in accordance with the different conditional access processe s A and of the service providers; and selects for decryption i DETD accordance with a predetermined priority based upon such status ***encrypted*** determinations the information ***segment * * * provided by one of the service providers. Examples of different statuses include, in order of priority: "blacked-out", "locked-out", "authorized", "available. in the information receiver to determine that the decr DETD yptor 31 in the information receiver is authorized to decrypt the select ed ***encrypted*** information ***segment*** . If the cryptog raphic information generator 72 is of the type described in the aforem entioned U.S. Pat. No. 4,712,238, at least. . . . algorithm that is used in the conditional access proce DETD SS utilized by the information server 10a, 10b that encrypts the s elected ***encrypted*** information ***segment*** and cryptograph ic data for use in generating a session key for use by the decryptor 32 for decrypting information ***segments*** ***encrypted*** i accordance with the given conditional access process, including data for defining an algorithm for generating the session key and. DETD . . receiver 12, 49 includes all of the possible status me

Page 10

ssages 94

in addition to the entitlement messages 26 and the ed*** ***segments*** 23. In this embodiment, the cond information itional access controller 32, 52 includes a control processor 95, an authorization processor 96, a. . to thereby provide to the decryptor 31 the cryptograph DETD ic information 42 that enables the decryptor 31 to decrypt the rec eived ***encrypted*** information ***segments*** 23 identified by the service request signal 40. . . by the information provider. Hence each conditional ac DETD cess service provider can customize its own conditional access algor ithms, including the information ***segment*** ***encryption*** algorithm. Accordingly the required integrated circuit sets in a present day proprietary network interface module are replaced by the ac cess. CLMWhat is claimed is: by a plurality of information service providers are encrypte d for transmission in accordance with different conditional access pr ocesses respectively utilizing ***different*** ***algorithms*** for encrypting the information segments, the processor comprising a decryptor in an information receiver for decrypting ted*** ***segments*** information received by the information rece iver by processing the received ***encrypted*** information qments*** with a session key used for encrypting the information segments in accordance with an algorithm utilized in one of said. . . ac cess processes; and a conditional access controller in the informati on receiver for selectively enabling the decryptor to decrypt rece ived ***segments*** information ***encrypted*** in accordanc

e with

any of said different conditional access processes by providing to the

decryptor cryptographic information for defining the. . . utilized in

said one of said different conditional access processes for use by the $\,$

decryptor to decrypt the received information ***segment***
encrypted in accordance with said algorithm.

. . $\ \,$ means for detecting within an information stream received by the

information receiver cryptographic information for defining the
 algorithm used for ***encrypting*** information ***segmen
ts***

in accordance with said one of said different conditional acces s

processes; and means for downloading the detected cryptographic information from. . .

. . . claim 1, wherein the conditional access controller includes a memory $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =$

in the information receiver storing cryptographic information for

defining said ***different*** ***algorithms*** respecti
vely

utilized in said different conditional access processes.

. . service providers; and means for selecting for decryption in accordance with a predetermined priority based upon said status determinations the ***encrypted*** information ***segment

provided by one of said service providers.

. . . algorithm provided by the conditional access controller to \boldsymbol{t} he

decryptor is provided in accordance with said selection of the selected

encrypted information ***segment*** provided by sai d one

service provider.

. . . combination with a demultiplexer in the information receiver , wherein $% \left(1\right) =\left(1\right) \left(1$

the demultiplexer is adapted for demultiplexing a received comb ined

signal containing ***encrypted*** information ***segments
*** and

entitlement messages; wherein the decryptor is coupled to the demultiplexer for receiving the demultiplexed ***encrypted***

segments information for said decryption, and wherein the conditional access controller is coupled to the demultiplexer f or receiving the demultiplexed entitlement messages. according to claim 1 in combination with a demultiplexer in the information receiver, wherein the decryptor is adapted for decr ypting ***encrypted*** ***seaments*** information in a received combined ***encrypted*** ***segments signal containing information *** entitlement messages, wherein the demultiplexer is coupled to t he decryptor for demultiplexing the combined signal following said ***encrypted*** information ***seaments decryption of the *** the decryptor; and wherein the conditional access controller is coupled to the demultiplexer for receiving the demultiplexed entitlemen t messages. encrypted information is provided by a plurality of informat ion service providers in accordance with different conditional acce SS processes respectively utilizing ***different*** ithms*** for encrypting the information, comprising encryption means for ***segments*** ***encrypting*** information for transmiss ion in accordance with different conditional access processes respecti vely ***different*** ***algorithms*** utilizing for encrypti ng the information segments; a decryptor in an information receiver fo r ***encrypted*** decrypting information ***seaments*** r eceived by the information receiver by processing the received rypted*** information ***segments*** with a session key used for encr ypting the information segments in accordance with an algorithm utiliz ed in one of said. access processes; and a conditional access cont

roller in the information receiver for selectively enabling the decryptor to ***segments*** decrypt received information accordance with any of said different conditional access proces ses by providing to the decryptor cryptographic information for defini ng the. utilized in said one of said different conditional access processes for use by the decryptor to decrypt the received info rmation ***segment*** ***encrypted*** in accordance with said alg orithm. . other cryptographic information includes data for use in gen erating a session key for use by the decryptor for decrypting information ***segments*** ***encrypted*** in accordance with the alg orithm utilized in said one of said different conditional access proce sses; and the conditional access controller. medium for use in an access control processor included in an information receiver of a conditional access system in which information ***segments*** ***encrypted*** provided by a of information service providers are encrypted for transmission in accordance with different conditional access processes respecti vely ***different*** ***algorithms*** utilizing ng the information segments, and including a decryptor for decrypting ***encrypted*** information ***segments*** received by th е information receiver by processing the received ***segments*** with a session key used for encr information ypting the information segments in accordance with an algorithm utiliz ed in one medium is configured so as the cause the condit of said. ional access controller to selectively enable the decryptor to decryp t ***segments*** ***encrypted*** received information

accordance with any of said different conditional access proces

ses, by providing to the decryptor cryptographic information for defini ng the. utilized in said one of said different conditional access processes for use by the decryptor to decrypt the received info rmation ***seament*** ***encrypted*** in accordance with said alg orithm. controller to detect within an information stream received b y the information receiver cryptographic information for defining the algorithm used for ***encrypting*** information ***segmen ts*** in accordance with said one of said different conditional acces S processes and to download the detected cryptographic informatio n from said. encrypted information is provided by a plurality of informat ion service providers in accordance with different conditional acce SS processes respectively utilizing ***different*** ***algor ithms*** for encrypting the information, comprising the steps of: (a) ***encrypting*** information ***segments*** for transmiss ion in accordance with different conditional access processes respecti vely ***different*** ***algorithms*** for encrypti utilizing ng the information segments; (b) using a decryptor in an information r eceiver to decrypt ***encrypted*** information ***seaments*** eceived by the information receiver by processing the received rypted*** ***segments*** information with a session key used for encr ypting the information segments in accordance with an algorithm utiliz ed in one of said conditional access processes; and (c) in the informatio n receiver, selectively enabling the decryptor to decrypt receive d

encrypted

in accordanc

segments

information

e with

any of said different conditional access processes by providing to the

decryptor cryptographic information for defining the. . . utilized in

said one of said different conditional access processes for use by the $\,$

decryptor to decrypt the received information ***segment***
encrypted in accordance with said algorithm.

. . of: (d) detecting within an information stream received by \boldsymbol{t} he

information receiver cryptographic information for defining the algorithm used for ***encrypting*** information ***segmen ts***

in accordance with said one of said different conditional acces

processes; and (e) downloading the detected cryptographic information

from said. . .

. . . step of: (d) providing the cryptographic information from a $\ensuremath{\mathsf{memory}}$ in

the information receiver storing cryptographic information for defining

said ***different*** ***algorithms*** respectively util
ized in
 said different conditional access processes.

. . the service providers, and (e) selecting for decryption in a

ccordance
with a predetermined priority based upon said status determinations the

encrypted information ***segment*** provided by one of said

service providers.

- . . of: (f) providing the cryptographic information for defining the algorithm to the decryptor in accordance with said selection of the ***encrypted*** information ***segment*** provided by said one service provider.
- . . the cryptographic information includes data for use in generating \boldsymbol{a}

session key for use by the decryptor for decrypting information

segments ***encrypted*** in accordance with said on
e

conditional access process.

NCL NCLM: 705/054.000

NCLS: ***380/047.000***; ***380/228.000***

:d pn

L19 ANSWER 1 OF 1 USPATFULL

PI US 5796829 19980818

WO 9608912 19960321

:end

=> d hist

(FILE 'HOME' ENTERED AT 14:21:34 ON 29 FEB 2000)

FILE 'USPATFULL' ENTERED AT 14:21:40 ON 29 FEB 2000

L1 0 S DIFFERENT (2A) ALGORITHM# (2A) ENCRYPTION (3A) BLOCK

L2 O S DIFFERENT (2A) ALGORITHM# (2A) ENCRYPTION (3A) SEGME

NT#

. ¬ π

L3 79 S DIFFERENT (2A) ALGORITHM# (2A) ENCRYPTION

L4 12 S L3 (P) (SEGMENT# OR BLOCK#)

L5 2 S ENCRYPTION OBJECT

L6 0 S 5577125.PN.

L7 0 S 5577125/PN

L8 0 S 5577125

L9 1 S L5 AND (DOUBLE CLICKING)

L10 0 S L9 AND OOP

L11 0 S L9 AND (OBJECT ORIENTED)

L12 3681 S OBJECT ORIENTED

L13 15 S L12 AND ENCRYPTION (2A) OBJECT

L14 84 S ENCRYPT? (2A) SEGMENT?

L15 61 S L14 AND (713/NCL OR 380/NCL)

L16 63 S ENCRYPT? (1A) SEGMENT?

L17 44 S L16 AND (713/NCL OR 380/NCL)

L18 1087 S DIFFERENT ALGORITHM#

L19 1 S L17 AND L18

=> d hist

(FILE 'HOME' ENTERED AT 16:46:38 ON 01 MAR 2000)

FILE 'USPATFULL' ENTERED AT 16:46:46 ON 01 MAR 2000

L1 72 S ONE TIME PAD

L2 1 S L1 (P) (CHANGING OR DYNAMIC)

=> d kwic

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L2 ANSWER 1 OF 1 USPATFULL

SUMM Other modern encryption systems have attempted to simulate the key

generation process of a ***one*** ***time*** ***pad**

by

using pseudo-random generators which creates a long series of \boldsymbol{k} eys

having the statistical property of randomness. Patents on such.

keys and using them to decrypt the transmitted ciphertext. Thus the $\ensuremath{\,}^{}$

key for every block to be encrypted. The use of pseudo-random ${\tt g}$ enerators

has greatly enhanced the strength of many systems, but it does not

perfectly create a ***one*** ***time*** ***pad*** .

=> d pn

L2 ANSWER 1 OF 1 USPATFULL

PI US 5003596 19910326

:1

L5 ANSWER 1 OF 3 USPATFULL

CLM What is claimed is:

. . . method according to claim 17, wherein the step of generating two or $\ensuremath{\mathsf{T}}$

more round keys further includes the steps of: ***dividing***
the

original ***key*** into a first key and a second key of equ

length; processing the first key using a ***hash*** function to

obtain a first set of intermediate keys; and processing the sec ond key $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

using a ***hash*** function to obtain a second set of intermediate $\ensuremath{\text{mediate}}$

keys.

37. The system according to claim 36, wherein the key processor further

comprises: a ***key*** separator for ***dividing*** the original

key into a first key and a second key of equal length; a first

keys; and a second ***hashing*** processor for processing t
he second

key using a ***hash*** function to obtain a second set of t
wo or

more intermediate keys.

NCL NCLM: ***380/029.000***

NCLS: ***380/037.000***

:2

L5 ANSWER 2 OF 3 USPATFULL

CLM What is claimed is:

. . . monotonic, single valued function having a value for its ind $\ensuremath{\mathsf{ependent}}$

variable which is a product of an integer times a ***hashed**
* value

characteristic of said selected publisher; said key value capab le of

being read by a book validation program to enable. . . syste $\mathbf{m}_{\text{\tiny{\textbf{r}}}}$ said

key value by determining an inverse value for a customized inverse

monotonic, single valued function expression using said ***k**

value, ***dividing*** said inverse value by said ***hashed***

value to obtain a quotient value and determining if said quotie nt value

is an integer.

. . . monotonic, single valued function having a value for its ind ependent

variable which is a product of an integer times a ***hashed**
* value

```
characteristic of said selected publisher; said key value capab
le of
      being read by a book validation means to enable. . . validat
ing said
       key value by determining an inverse value for a customized inve
rse
      monotonic, single valued function expression using said
V***
                ***dividing***
                                 said inverse value by said
       value,
d***
       value to obtain a quotient value and determining if said quotie
nt value
       is an integer.
              705/051.000
NCL
      NCLM:
                ***380/028.000*** ; ***380/277.000*** ; 704/001.00
      NCLS:
0;
              707/500.000; ***713/168.000***
:3
L5
     ANSWER 3 OF 3 USPATFULL
DETD
                is to use a means similar to Cipher Block Chaining (CB
C) mode,
                                              ***kev***
       as defined for the DEA. In this case,
                                                           record is
       ***divided***
                       into blocks whose length is such that each bloc
k can be
       encrypted with the asymmetric key algorithm. After each step.
       step 522 control vector and key record are concatenated to form
an
       intermediate value called HA-IN. At step 523, a
value
       ***HASH2***
                     is calculated on HA-IN using ***hash***
ithm ha2.
       For example, ***hash*** algorithm ha2 may be the MDC-2 algo
rithm of
                                  a 128-bit MDC value. The value
                                                                   * * *
      FIG. 5 and
                    ***HASH2***
HASH2***
      is for practical purposes defined to be the key authenticator r
ecord
       (KAR). However, the KAR may contain additional data besides
                   . At step 524, KAR is decrypted with private maste
r key PRO
      to produce dPRO(KAR). In public key cryptography, the ciphertex
t.
NCL
      NCLM:
                ***380/277.000***
                ***380/030.000*** ; ***380/280.000***
      NCLS:
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